NANDISH ASSOCIATES

ARCHITECTS AND ENGINEERING CONSULTANTS

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99

REF. :

DATE :

BRUHAT BANGALORE MAHANAGARA PALIKE

Name of work : Construction of Swimming Pool at Allalasandra Lake premises, in ward no.04 of Yelahanka Assembly Constituency

ABSTRACT

S.N	DESCRIPTION OF WORK	TOTAL COST
1	**Civil works**	
a	Swimming Pool	24350000.00
b	Gallery	18670000.00
c	Balancing tank	1194000.00
d	Filtration Room	1095000.00
e	Borewell	570000.00
f	PHE Works	612000.00
2	Electrical Works	3260000.00
3	D G Set Generator - 62.5 KVA	900000.00
4	Filtration Equipments	7350000.00
	TOTAL	**58001000.00**
5	Consultancy charges @ 3% + Service Tax @ 14%	1983634.00
	TOTAL	59984634.00
6	Miscelleneous	15366.00
	GRAND TOTAL	**60000000.00**

For Nandish Associates

(K C Nandish)

Assistant Engineer
Project Sub Division
Yelahanka Zone, BBMP

Assistant Executive Engineer
Project Sub Division
Yelahanka Zone, BBMP

Executive Engineer
Project division
Yelahanka Zone, BBMP Bnagalore

Technical Sanction
Accorded For 600.00 lakh Rs.
Head of A/C MMNY
CER NO : 02 Dt: 08.06.15

LTA CE (YNK)

ADMINISTRATIVELY SANCTIONED FOR Rs 600.00 Lakhs
Rupees Six hundred lakhs only
Under MMNY
Registered as EE ( ) No
Subject to conditions contained in
enclosed memo EE ( ) No
Dt Estimate A/C sanctioned
Jc(L) AS/04/15-16
dated 8-6-2015 for 600.00 lakhs

Joint Commissioner
(Yelahanka Zone)
BBMP, Bengaluru-92

S.N	DESCRIPTION OF WORK	N	L	B	D	QTY	UNIT	RATE	AMOUNT
19	Providing 18mm thick cement plaster in single coat with cement mortar 1:4, to brick masonry including rounding off corners wherver required smooth rendering, : Providing and removing scaffolding, cost of materials, labour, curing complete as per specifications and direction of the Engineer in charge Providing lime rendering for plastering to wall and ceiling including cost of mate3rials labour curing complete as per specifications **Internal wall platering**								
	S.r page 110 and 111 Item No.15.16 & 15.33								
	Basement wall - main wall	1	64.40	-	5.50	1416.80			
	side wall	2	4.45	-	5.50	48.95			
		1	62.00	-	2.10	130.20			
	Plastering roof area beams	2	4.00	-	1.70	13.60			
		2	6.00	-	1.70	20.40			
		2	7.65	-	1.70	26.01			
		2	92.00	-	1.70	312.80			
		2	10.20	-	1.70	34.68			
		2	62.40	-	1.70	212.16			
		1	48.20	-	1.70	81.94			
		1	34.50	-	1.70	58.65			
		1	20.70	-	1.70	35.19			
		2	5.05	-	1.20	12.12			
		2	7.15	-	1.20	17.16			
		2	8.80	-	1.20	21.12			
		2	10.10	-	1.20	24.24			
	Waist slab					515.00			
	Gallery area					425.00			
						3406.02	Sqmt		
	Deduction:								
	V	36	0.90		0.60	19.44			
	V	14	1.50	-	0.60	12.60			
						32.04			
						3373.98	Sqmt	**231.08**	**779659.30**
	Basic Rate:	218.00							
	Area Weightage @ 6%	13.08							
	Total	231.08							
20	Providing and laying **M-15 cement concrete flooring, 60mm thick** with metallic concrete hardner topping under layer of 45mm thick M-15 cement concrete using broken granite metal of 20mm and down size, and top layer 15mm thick of metallic cement hardner consisting of mix 1:2 (1 cement hardner mix : 2 granite metal 10mm nominal size) by volume, with metallic hardening compound of approved quality mix in the ratio of 4:1 (4 part of cement and 1 part of metallic floor hardening compound of approved quality by wt), including finishing cost of materials, labour, curing complete as per specifications.								
	S.R page 99 item 14.14								
	For Full area	2	27.00	10+6/2		432.00			
						432.00	Sqmt	**2341.54**	**1011545.28**
	Basic Rate:	2209.00							
	Area Weightage @ 6%	132.54							
	Total	2341.54							
21	Providing and laying **Flooring** using pre polished water cut/gang saw 19mm thick **grey granite** laid over bed of 20mm thick 1:4 cm and jointed with neat cement slutty mixed with pigment to match shade of granite slabs including laying POP on finished surfaqce and cleaning the surface including the cost of all m,aterials and labouts etc. complete as per specifications.								
	S.R page 104 item 14.47/14.47.1								
	Gallery step	10	0.90	-	0.45	4.05			

4	Providing and laying cement concrete using 20mm and down size granite coarse aggregates and fine aggregates of ready mixed concrete (RMC) M-20 for RCC Works laid in 15 cms thick layers and well compacted vibrating, curing, for raft foundation column footing main and secondary beams with all lead and lifts etc. compelte (exclusive of cost of steel and fabrication charges)								
	S.R.page 18 item 4.46								
	bottom slab	1	5.00	5.00	0.15	3.75			
	top slab	1	5.00	5.00	0.15	3.75			
						7.50			
	Deductions	1	0.45	0.45	0.15	0.03			
						7.47	Cumt	5738.84	42869.13
	Basic Rate	5414.00							
	Area Weightage @ 6%	324.84						6214.78	
	Total	5738.84							
5	Providing and laying cement concrete using 20mm and down size granite coarse aggregates and fine aggregates of ready mixef concrete for RCC works laid in 15 cms thick layers and well compated including vibrating, curing etc., with all lead and lifts etc complete(exclusive of cost of steel and fabrication charges) Ready Mixed Cement Concrete for Beams, Staircase and Roof with M-25								
	S.r.page 18 item 4.49/4.49.2								
	Footing for retaining wall	1	20.00	1.00	0.45	9.00			
	Retaining wall	1	20.00	0.33	5.00	32.50			
						41.50	Cumt	5875.58	243836.57
	Basic Rate	5543.00							
	Area Weightage @ 6%	332.58						6210.88	
	Total	5875.58							
6	Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for vertical surface such as walls at any thicknes including cost of all materials, labour complete as per specifications and direction of the Engineer in charge.								
	S.R.page 15 item 4.31								
	Retaining wall	2	25.00		5.00	250.00			
						250.00	Sqmt	901.00	225250.00
	Basic Rate	850.00							
	Area Weightage @ 6%	51.00						301.04	
	Total	901.00							
7	Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for flat surface such as roofs landings balconies and likes thickness upto 200 mm including cost of all materials labour complete as per specifications for heights more than 3.50m from Ground level - 0 to 7 mts								
	S.R.page 15 Item No. 4.18								
	top slab	1	5.00	5.25		26.25			
	Deductions	1	0.45	0.18		0.08			
						26.33	Sqmt	308.46	8122.06
	Basic Rate:	291.00							
	Area Weightage @ 6%	17.46						323.30	
	Total	308.46							

S.N	DESCRIPTION OF WORK	N	L	B	D	QTY	UNIT	RATE	AMOUNT
13	Providing and laying cement concrete using 20mm and down size granite coarse aggregates and fine aggregates of ready mixed concrete (RMC) M-20 for RCC Works laid in 15 cms thick layers and well compacted vibrating, curing, for raft foundation column footing main and secondary beams with all lead and lifts etc. compelte (exclusive of cost of steel and fabrication charges)								
	S.R.page 18 item 4.48								
	Alfround cementing for laying tiles.	2	56.00	3.00	0.10	33.60			
		2	25.00	3.00	0.10	15.00			
	Basic Rate:	5414.00				48.60	Cumt	5738.84	278907.62
	Area Weightage @ 6%	324.84							
	Total	5738.84						6214.38	
14	Providing **TMT Steel Reinforcement for R.C.C work** including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications.**TMT Bars Fe 500**								
	S.R page 19 item 4.46.2								
	Concrete items vide item No.6 & 13					986.70	Cumt		
	@ 1.75%					17.27			
	@ 7850 kg/cmt					135548	kg (l)		
	Basic Rate:	72548.00			or say	135.50	M.T	76900.88	10420069.24
	Area Weightage @ 6%	4352.88							
	Total	76900.88						68513.10	
15	Providing pre cast urocon tiles, red colour for footpath 20mm thickusing marble chilps at 7-10 nominalsize laid on bed CM 1:3 mix & jointd with red oxide cement slurry mixed pigment to match the shade of tiles, rubbing polishing , oxalicacid was, wax polish including cost of all materials and labour (Approved Rates)								
	Alround deck area	2	56.00	3.00		336.00			
		2	25.00	3.00		150.00			
						486.00	Sqmt	1250.00	607500.00
								M.R	
16	Providing and constructing precast concrete Solid Blocks with compressive strength not less than 35 kg/sqm with cement mortar 1:4 masonry (quion, jamb, closer blocks) with Solid Concrete Blocks of size **40x20x20cms** confirming to I.S 2185/1985 in Superstructure including cost of all materials, labour charges, scaffolding, curing complete as per specifications.								
	S.R.page 25 item 5.27								
	Alround Drain	4	56.00		0.45	100.80			
		4	25.00		0.45	45.00			
	Basic Rate:	920.00				145.80	Sqmt	975.20	142184.16
	Area Weightage @ 6%	55.20							
	Total	975.20						999.58	

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S.N	DESCRIPTION OF WORK	N	L	B	D	QTY	UNIT	RATE	AMOUNT
	@ 7850 kg/cmt					2099.01	kg (ii)		
c)	R.C.C.Column					46.39	Cumt		
	@ 2%					0.93			
	@ 7850 kg/cmt					7282.60	kg (iii)		
d)	R.C.C.Beams					149.80	Cumt		
	@ 2.0%					3.00			
	@ 7850 kg/cmt					23518.91	kg(ii)		
e)	R.C.C.Roof					20.33	Cumt		
	@ 1.5%					0.30			
	@ 7950 kg/cmt					2393.62	kg(v)		
f)	Staircase					102.34	Cumt		
	@ 1.5%					1.54			
	@ 7850kg/cmt					12050.48	kg(iii)		
						54119.96	kg	/	/
					or say	**54.12** /	M.T	**76900.88**	**4161872.60**
	Basic Rate:	72548.00							
	Area Weightage @ 6%	4352.88						6851.10	
	Total	76900.88							
17	Providing and constructing precast concrete **Solid Blocks** with compressive strength not less than 3.5 Newton per sqmm with cement mortar 1:4 masonry (quion, jamb, closer blocks) with Solid Concrete Blocks of size **40x20x20 cms** confirming to I.S 2185/1965 in Superstructure including cost of all materials, labour charges, scaffolding, curing complete as per specifications.								
	S.R.page 26 item 5.27								
		1	92.00	-	2.50	230.00			
		1	64.40	-	8.60	553.84			
		1	62.00	-	2.10	130.20			
		2	10.10	-	3.80	76.76			
		2	6.25	-	3.80	47.50	/	/	/
						1038.30 /	Sqmt	**975.20**	**1012550.16**
	Basic Rate:	920.00							
	Area Weightage @ 6%	55.20						995.52	
	Total	975.20							
18	Providing 18mm thick cement plaster in single coat with cement mortar 1:4, to brick masonry including rounding off corners wherver required smooth rendering. : Providing and removing scaffolding, cost of materials, labour, curing complete as per specifications and direction of the Engineer in charge.For **Outside Plastering**								
	S.r.page 110 Item No.15.16								
	Main entrance wall	1	64.40	-	8.80	566.72			
	Front wall	1	62.00	-	2.10	130.20			
	Side wall	2	4.45	-	7.81	69.51			
	Gallery area					425.00	/	/	/
						1191.43 /	Sqmt	**209.88**	**250057.12**
	Basic Rate:	198.00							
	Area Weightage @ 6%	11.88						222.60	
	Total	209.88							

BRUHAT BANGALORE MAHANAGARA PALIKE

Name of work : Construction of Swimming Pool at Allalasandra Lake premises, in ward no.04 of Yelahanka Assembly Constituency

BALANCING TANK

S.N	DESCRIPTION OF WORK	N	L	B	D	QTY	UNIT	RATE	AMOUNT
1	Earthwork excavation for foundation of buildings, water supply, sanitary lines and electrical conduits either in pits or in trenches 1.5m and above in width, in **hard soil** not exceeding 1.5 m. in depth including dressing the bottom and **sides** of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50 m. after breaking of clods complete as per specifications.								
	S.R.page 5 item 2.4								
	For tank	1	5.00	5.00	5.50	137.50			
	For retaining wall	1	20.00	1.00	1.00	20.00			
						157.50	Cumt	**259.70**	**40902.75**
	Basic Rate:	245.00							
	Area Weightage @ 6%	14.70						283.02	
	Total	259.70							
2	Providing and filling in foundation with granite / trap borken metal 100mm and down size, with approved sand including hand packing, ramming, watering, including cost of all materials and labour with all lead and lift complete as per specification.								
	S.R page 6 item no 2.15								
	For tank	1	5.00	5.00	0.30	7.50			
	For retaining wall	1	20.00	1.00	0.30	6.00			
						13.50	Cumt	**1926.02**	**26001.27**
	Basic Rate:	1817.00							
	Area Weightage @ 6%	109.02						2137.78	
	Total	1926.02							
3	Providing and laying in position Plain Cement Concrete of mix 1:3:6 with OPC cement @ 220kgs ,with 40mm and down size graded granite metal coarse aggregates @ 0 892 cum and fine aggregates @ 0.465cum machine mixed, concrete laid in layers not exceeding 15 cms thick, well compacted, in foundation including cost of all materials,labour, HOM of machinery ,curing complete as per specifications.								
	S.R.page 12 item 4.2								
		1	5.00	5.00	0.15	3.75			
	For retaining wall	1	20.00	1.00	0.15	3.00			
						6.75	Cumt	**4970.34**	**33549.80**
	Basic Rate:	4689.00							
	Area Weightage @ 6%	281.34						5139.94	
	Total	4970.34							

12	Providing TMT Steel Reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications. -do- for TMT Bars Fe 500								
	S R page 19 item 4.46.2								
a	Column footing								
						8.78	Cmt		
	@ 1%					0.088			
	@ 7850 kg/cmt					689.19	kg		
						0.69	M.T		
b	column								
						4.66			
	@ 2%					0.093			
	@ 7850 kg/cmt					731.23	kg		
						0.73	M.T		
c	plinth beam								
						2.88			
	@ 1%					0.029	kg		
	@ 7850 kg/cmt					226.08			
						0.23	M.T		
d	Lintel								
						1.92			
	@ 1%					0.019	kg		
	@ 7850 kg/cmt					150.72			
						0.15	M.T		
e	Roof beam					4.32			
						4.32	cumt		
	@ 2%					0.09			
	@ 7850 kg/cmt					678.24	kgs		
						0.68	MT		
	TOTAL					**2.48**	MT	**76900.88**	**190364.92**
	Basic Rate:	72548.00							
	Area Weightage @ 6%	4352.88						68513.16	
	Total	76900.88							
13	Providing and constructing precast concrete Solid Blocks with compressive strength not less than 35 kg/sqm with cement mortar 1:4 masonry (quion, jamb, closer blocks) with Solid Concrete Blocks of size 40x20x20cms confirming to I.S 2185/1965 in Superstructure including cost of all materials, labour charges, scaffolding, curing complete as per specifications.								
	S.R page 25 item 5.27								
	Ground floor	1	32.00		4.00	128.00			
	Deduction main door	1	3.00		2.40	-7.20			
	window	6	1.80		1.40	-15.12			
						105.68	Sqmt	**975.20**	**103059.14**
	Basic Rate:	920.00							
	Area Weightage @ 6%	55.20						999.58	
	Total	975.20							

14	Providing and fixing pull and push type rolling shutter of approved ake out of 19 guage,75mm wide cold rolled steel laths of conves corrgation, with side guides and bottom rail, with interlaocking arrangements for steel laths by means of alternate clips suspension shaft whith high tension coil type spring two number mounted on specially desigend pipe shaft,with bracket two plastes ,guide channels, ball bearning arrangement for inside & out side locking with pus & pull operation complete including pulling hooks,4 nos Handles with all fitting and accessores, painted with a coat of red paint (withouttop cover) cost of materials labour,HOM of machinery complete as per specification								
	S R page 31 item 7.5								
	Door	1	3.00	2.40		7.20	Sqmt	2820.66	20308.75
	Basic Rate:	2661.00							
	Area Weightage @ 6%	159.66						2838.68	
	Total	2820.66							
15	Providing and fixing in position in cement concrete 1:3:6 steel glazed Windows and ventilator side ventilators side hung/top hung 2/3 openable 1/3 fixed as per approvd drawing using Z angles of 25x33x3mm weighing 1.410 kg/m both or outer and innrr frames and central mullion section of size 25x46x3m weighing 2.28kg/m all duty providing T section 19x19x3mm weight 0.838 kg/m al duty providing T section that 34cms c to c including providing and fixing 4mm thick reded glass wirh teakwood beading or required size all steel section should confirm to IS 7452:1990,4 n os of holdfast of approved size ;section should be cut to length welded and grinded electrcally subdiiding frames of unit shll be tenonnd; and rewetted into the frames electrcially. all the steel surface shall be throughly cleaned free; of r;ust and painted with one coat of anti-corrosive paint and finishing two coats or ready mix paint of approved colours and make including cost of materils,fixtures labour chargs and HOM of machinery complete as per specification								
	S.R page 32 item 7.8								
	Window	6	1.80		1.40	15.12	Sqmt	3219.22	48674.61
	Basic Rate:	3037.00							
	Area Weightage @ 6%	182.22						3209.68	
	Total	3219.22							
16	Providing 15mm thick cement plaster in single coat with cement mortar 1:4, to internal wall including rounding off corners wherever required smooth rendering,. Providing and removing scaffolding, including cost of materials, labour, lead, lift, curing complete as per specifications and direction of the Engineer in charge Providing Lime rendering for Plastering to Ceiling including cost of materials, labour, curing complete as per specification.								
	S.R page 109 & 111 item15.13 and 15.33								
		1	32.00		4.00	128.00			
	Maindoor	1	3.00		3.00	-9.00			
	window	6	1.80		1.40	-15.12			
						103.88	Sqmt	198.22	20591.09
	Basic Rate:	187.00							
	Area Weightage @ 6%	11.22						210.06	
	Total	198.22							
17	Providing 18mm thick cement plaster in single coat with cement mortar 1:4, to brick masonry including rounding off corners wherver required smooth rendering, . Providing and removing scaffolding, cost of materials, labour, curing complete as per specifications and direction of the Engineer in charge.for Outside								
	S.R page 110 item No. 15.16								
		1	32.00		4.00	128.00	Sqmt	209.88	26864.64
	Basic Rate:	198.00							
	Area Weightage @ 6%	11.88						222.10	
	Total	209.88							

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S.N	DESCRIPTION OF WORK	N	L	B	D	QTY	UNIT	RATE	AMOUNT
10	Providing Ceramic tiles of approved make shade and size for flooring, treads of steps and landings laid on a bed of 12mm thick, cement mortar 1:3 mix, flush pointing with white cement using colour pigment, including cost of materials, labour, curing, complete as per specifications.of **size 30 x 30 cms 6mm thick**								
	S.R.page 103 item 14.36 and 14.36.2								
	Main Pool - Bottom flooring	1	50.00	25.00		1250.00			
	For Side walls- Main Pool	2	50.00	2.1+1.2/2		165.00			
	For side walls - Main Pool	1	25.00	2.40		60.00			
	For side walls - Main Pool	1	25.00	1.50		37.50			
	Kids pool- Bottom flooring	1	10.00	6.00		60.00			
	Side walls - Kids Pool	2	10.00	0.90		18.00			
	Side walls - Kids Pool	2	6.00	0.90		10.80			
	For Gutter	2	50	1.05		105.00			
	For slope at the bottom walls alround	1	150	0.15		22.50			
						1728.80	Sqmt	**999.58**	**1728073.90**
	Basic Rate:	943.00							
	Area Weightage @ 6%	56.58						1191.44	
	Total	999.58							
11	Providing and fixing Stainless steel 304 grade for staircase railings, balconies, ramps with hand rail, 50mm dia 16 guage hollow pipe welded to vertical hollow 50mm dia pipe of 16 guage, stainless steel vertical pipe spaced at 1.20m regular intervals, and 5 Nos of 25mm dia. Stainless steel hollow horizontal pipe are welded to vertical 50mm dia hollow pipe. The entire assembly is fixed to staircase concrete by using expansion bolts by drilling concrete etc., complete including cost of materials, labour, HOM of machineries and electrical charges, etc., complete as per specifications.								
	S.R page 43 item 7.38								
		2	50.00	-	1.00	100.00			
						100.00	Sqmt	**6393.92**	**639392.00**
	Basic Rate:	6032.00							
	Area Weightage @ 6%	361.92						6475.92	
	Total	6393.92							
12	Providing 20mm thick cement plaster in single coat with cement mortar 1:3, to stone masonry & concrete surface including rounding off corners wherever required smooth rendering, : Providing and removing scaffolding, including cost of materials, labour, curing complete as eper spec ifications and Extra for providing and mixing Waterproofing compound in cement plaster work at one kg per bag or in the proportion recomended by the manufacturers, for cement mortar 1:3, 12mm thick cost of materials complete as per specifications.								
	S.R page 110 item 15.18 and .23								
	Main Pool Base	1	50.00		25.00	1250.00			
	Toddler Pool Base	1	10.00		6.00	60.00			
	For Side walls (Main Pool)	2	50.00		1.75	175.00			
	For Side walls(Main Pool)	1	25.00		2.40	60.00			
	For Side walls(Main Pool)	1	25.00		1.20	30.00			
	For Side walls(Toddler Pool)	2	10.00		0.90	18.00			
	For Side walls(Toddler Pool)	2	6.00		0.90	10.80			
	Inside Drain walls	1	56.00		1.35	75.60			
	Inside Drain walls	1	25.00		1.35	33.75			
						1713.15	Sqmt	**258.11**	**442181.15**
	Basic Rate	243.50							
	Area Weightage @ 6%	14.61						262.18	
	Total	258.11							

S.N	DESCRIPTION OF WORK	N	L	B	D	QTY	UNIT	RATE	AMOUNT
	Steps for gallery	10	0.90	0.45	0.15	0.61			
	@1.35 level landing	1	2.00	6.20	0.15	1.86			
	Landing	1	13.80	3.35	0.15	6.93			
	Staircase steps waist slab	2	6.00	1.20	0.15	2.16			
		1	2.45	1.20	0.15	0.44			
	Staircase steps	36	1.20	0.15	0.15	1.94	x2		
		1	2.50	1.20	0.15	0.90	x2		
	Basement entrance steps	6	6.90	0.30	0.15	1.86			
		1	6.90	0.30	0.3	0.62			
		1	6.90	0.30	0.45	0.93			
		1	6.90	0.30	0.6	1.24			
		1	6.90	0.30	0.75	1.55			
		1	6.90	0.30	0.9	1.86			
		1	6.90	0.30	1.05	2.17			
						102.34			
						384.84	Cumt	**5875.58**	**2261143.52**
	Basic Rate	5543.00							
	Area Weightage @ 6%	332.58						6410.58	
	Total	5875.58							
15	Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for Stairs (excluding landing) except spiral staircase including cost of all materials, labour complete as per specifications.**(Gallery and Staircase)**								
	S.R page 16 item 4.38								
	For Full area	2	27.00	10+6/2		432.00			
		10	0.90	0.45	-	4.05			
		1	2.00	6.20	-	12.40			
		1	13.80	3.35	-	46.23			
		2	6.00	1.20	-	14.40			
		1	2.45	1.20	-	2.94			
		36	1.20	0.15	-	6.48			
		1	2.50	1.20	-	3.00			
		6	6.90	0.30	-	12.42			
		1	6.90	0.30	-	2.07			
		1	6.90	0.30	-	2.07			
		1	6.90	0.30	-	2.07			
		1	6.90	0.30	-	2.07			
		1	6.90	0.30	-	2.07			
		1	6.90	0.30	-	2.07			
						546.34	Sqmt	**481.24**	**262920.66**
	Basic Rate	454.00							
	Area Weightage @ 6%	27.24						493.48	
	Total	481.24							
16	Providing TMT Steel Reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications. **TMT Bars Fe 500**								
	S.R page 17 item 4.46								
a)	Column Footings					86.31	Cumt		
	@ 1.0%					0.86			
	@ 7850 kg/cmt					6775.34	kg (l)		
b)	Plinth Beam					26.74	Cumt		
	@ 1 %					0.27			

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S.N	DESCRIPTION OF WORK	N	L	B	D	QTY	UNIT	RATE	AMOUNT
34	Providing and fixing in position anodized **aluminium windows and ventilators** as per approved drawings with sliding shutters using double track window frame of size 61.85x31.75mm, with 1.2mm thick bottom section weight 0.695kg/m; sides and top sections 1.3mm, thick, weight 0.659 kg/m shutter frame section comprising top and bottom section of size 40mmx18mm, wall thickness 1.25mm, weight 0.417 kg/m shutter side outer 40mmx18mm wall thickness 1.25mm weight 0.417 kg/m shutter side outer 40mmx26.7mm wall thickness 1.1mm weight 0.469 kg/m, shutter interlock section 40mmx26.7mm wall thickness 1.1mm thick, weight 0.469 kg/m, the shutters mounted on nylon rollers with approved quality of fixtures such as aluminium handles tower bolts etc; providing and fixing 5.5mm thick plain glass for shutters fitted with rubber beading all aluminium sections anodised 12 to 15 microns thick including cutting to reuired length, joints mitred subdividing the frame tenonned and rivetted, in the asembled frame, stiffened with end clips for corners, angles etc., and fixed to the walls, lintels, floor beams/cills as the case may be, with necessay steel screws, raul plugs or teak wood gatties including cutting masonry or concrete and making good the original surface using cement mortar, aluminium sections pretreated for removal of any								
	S.R page 33 Item No. 7.10.1								
	Ventilator V	14	1.50	-	0.60	12.60			
	V1	36	0.90	-	0.60	19.44			
						32.04	Sqmt	3879.60	124302.38
	Basic Rate	3660.00							
	Area Weightage @ 6%	219.60						3915.52	
	Total	3879.60							
								TOTAL	18661072.95
35	Miscelleneous and Unforeseen Charges								8927.05
								TOTAL:	18670000.00

(RUPEES ONE CRORE EIGHTY SIX LAKHS SEVENTY THOUSAND ONLY)

CERTIFICATES

1) The work spot has been inspected and found to be necessary
2) This estimate is prepared as per KPWD SR. of 2014-15 & Approved Rates
3) The provisions were made in this estimate are necessary and adequate.
4) This works come under B.B.M.P. limits.
5) The work is not Spilt Up.

Assistant Engineer
Project Sub Division
Yelahanka Zone, BBMP

Executive Engineer
Project division
Yelahanka Zone, BBMP Bnagalore

Assistant Executive Engineer
Project Sub Division
Yelahanka Zone, BBMP

7	Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for foundations. Footings, bases of columns for mass concrete including cost of all materials, labour complete as per specifications and direction of the Engineer in charge.								
	S.R page 15 item 4.28								
	column footing	6	7.60		0.45	20.52			
						20.52	Smt	**232.14**	**4763.51**
	Basic Rate	219.00							
	Area Weightage @ 6%	13.14						239.56	
	Total	232.14							
8	Providing and removing Centering, shuttering, strutting, propping etc., for columns, pillars, piers, abutments, post and struts, square / rectangular / polygon in plan including cost of materials, labour complete as per specification and directions of the Engineer in charge.								
	S.R page 15 item 4.32	6	1.50		5.75	51.75			
						51.75	Sqmt	**358.28**	**18540.99**
	Basic Rate	338.00							
	Area Weightage @ 6%	20.28						376.30	
	Total	358.28							
9	Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for vertical surface such as walls at any thickness, including attached pilasters, buttresses, plinth and string courses cost of all materials, labour complete as per specificaitons.								
	S.R page 17 item 4.31								
	plinth beam	1	38.00		0.90	**34.20**	Sqmt	**287.26**	**9824.29**
	Basic Rate	271.00							
	Area Weightage @ 6%	16.26						301.04	
	Total	287.26							
10	Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for sides and soffits of beams, beam haunchings, cantilever girders, bressumers and **lintels** not exceeding 1m in depth including cost of all materials, labour complete as per specificaitons.								
	S.R page 16 item 4.34								
	Lintel	1	32.00		0.80	**25.60**	Sqmt	**255.46**	**6539.78**
	Basic Rate.	241.00							
	Area Weightage @ 6%	14.46						265.00	
	Total	255.46							
11	Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for sides and soffits of beams, beam haunchings, cantilever girders, bressumers and **lintels** not exceeding 1m in depth including cost of all materials, labour complete as per specificaitons.								
	S.R page 16 item 4.34								
	Roof beam	1	32.00		1.05	**33.60**	Sqmt	**255.46**	**8583.46**
	Basic Rate:	241.00							
	Area Weightage @ 6%	14.46						265.00	
	Total	255.46							

S.N	DESCRIPTION OF WORK	N	L	B	D	QTY	UNIT	RATE	AMOUNT
6	Providing and filling in foundation with granite / trap broken metal 100mm and down size, with approved sand including hand packing, ramming, watering, including cost of all materials and labour with all lead and lift complete as per specification.								
	S.R.page 6 item 2.15								
	Main Pool	1	50.00	25.00	0.30	375.00			
	Toddler Pool	1	10.00	6.00	0.30	18.00			
						393.00	Cumt	**1926.02**	**756925.86**
	Basic Rate:	1817.00							
	Area Weightage @ 6%	109.02						2133.74	
	Total	1926.02							
7	Providing and laying in position **Plain Cement Concrete of mix 1:3:6** with OPC cement @ 220kgs ,with 40mm and down size graded granite metal coarse aggregates @ 0 .892 cum and fine aggregates @ 0.465cum machine mixed, concrete laid in layers not exceeding 15 cms thick, well compacted, in foundation including cost of all materials,labour, HOM of machinery ,curing complete as per specifications.								
	S.R.page 12 item 4.2								
	PCC for Main Pool	1	50.00	25.00	0.15	187.50			
	PCC for Toddler Pool	1	10.00	6.00	0.15	9.00			
						196.50			
	Allround Bed concrete	2	56.00	3.00	0.15	50.40			
		2	25.00	3.00	0.15	22.50			
	Allround Drain	2	56.00	0.45	0.15	7.56			
		2	25.00	0.45	0.15	3.38			
						83.84			
						280.34	Cumt	**4970.34**	**1393360.26**
	Basic Rate:	4689.00							
	Area Weightage @ 6%	281.34						5139.92	
	Total	4970.34							
8	Providing and laying cement concrete using 20mm and down size granite coarse aggregates and fine aggregates of ready mixedf concrete for RCC works laid in 15 cms thick layers and well compated including vibrating, curing,etc., with all lead and lifts etc complete(exclusive of cost of steel and fabrication charges) **Ready Mixed Cement Concrete for Beams, Staircase and Roof with M-25(for Side Walls and Bottom)**								
	S.R.page 18 item 4.49/4.49.2								
	Main Pool base	1	50.00	25.00	0.60	750.00			
	Toddler Pool base	1	10.00	6.00	0.60	36.00			
	Side walls (Main Pool)	2	50.60	0.30+0.45/2	2.00	75.90			
	Side walls (Main Poll)	2	25.30	0.30+0.45/2	2.00	37.95			
	Side walls(kids pool)	2	10.00	0.30+0.45/2	1.20	13.50			
	Side walls(kids pool)	2	6.00	0.30+0.45/2	1.20	10.80			
	For gutter Mainpool	2	52.00	0.75	0.15	11.70			
	For gutter kids pool	2	10.00	0.75	0.15	2.25			
						938.10	Cumt	**5875.58**	**5511893.35**
	Basic Rate	5543.00							
	Area Weightage @ 6%	332.58						6410.88	
	Total	5875.58							
9	Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for vertical surface such as Walls at any thickness, including attached pilasters, buttresses, plinth and string courses cost of all materials, labour complete as per specifications.								
	S.R.page 15 item 4.31								
	Side Walls (Main Pool)	4	50.60		2.00	404.80			
	Side Walls (Main Pool)	4	25.00		2.00	200.00			
	At Bed	2	50.00		0.60	60.00			
		2	25.00		0.60	30.00			
						694.80	Sqmt	**287.26**	**199588.25**
	Basic Rate:	271.00							
	Area Weightage @ 6%	16.26						301.04	
	Total	287.26							

S.N	DESCRIPTION OF WORK	N	L	B	D	QTY	UNIT	RATE	AMOUNT
		1	64.40		1.20	77.28			
		1	64.40		1.20	77.28			
		1	64.40		1.20	77.28			
		1	62.00		1.20	74.40			
						942.36	Sqmt	**255.46**	**240735.29**
	Basic Rate:	241.00						245.00	
	Area Weightage @ 6%	14.46							
	Total	255.46							
13	Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for flat surface such as roofs landings balconies and likes thickness upto 200 mm including cost of all materials labour complete as per specifications upto 3.50m from Ground level								
	S R page 15 Item No. 4.18								
		4	6.90	1.90		52.44			
		4	5.50	1.90		41.80			
		1	9.60	4.30		41.28			
						135.52	Sqmt	**308.46**	**41802.50**
	Basic Rate	291.00						323.50	
	Area Weightage @ 6%	17.46							
	Total	308.46							
14	Providing and laying cement concrete using 20mm and down size granite coarse aggregates and fine aggregates of ready mixed concrete for RCC works laid in 15 cms thick layers and well compated including vibrating, curing,etc., with all lead and lifts etc complete(exclusive of cost of steel and fabrication charges) Ready Mixed Cement Concrete for Beams, Staircase and Roof with M-25**(for Staircase)**								
	S.r page 18 item 4.49/4.49.2								
	Column Footings	28	1.90	1.90	0.45	45.49			
	Column Footings	28	1.80	1.80	0.45	40.82			
						86.31			
	Columns	10	0.45	0.60	8.80	23.76			
	Columns	8	0.45	0.45	8.80	14.26			
	Columns	10	0.45	0.60	3.10	8.37			
						46.39			
	Beams	2	4.00	0.30	0.70	1.68			
	Beams	2	6.00	0.30	0.70	2.52			
	Beams	2	7.65	0.30	0.70	3.21			
	Beams	2	92.00	0.30	0.70	38.64			
	Beams	2	10.20	0.30	0.70	4.28			
	Beams	2	62.40	0.30	0.70	26.21			
	Beams	1	48.20	0.30	0.70	10.12			
	Beams	1	34.50	0.30	0.70	7.25			
	Beams	1	20.70	0.30	0.70	4.35			
	Secondary beams	2	5.05	0.30	0.45	1.36			
	Secondary beams	2	7.15	0.30	0.45	1.93			
	Secondary beams	2	8.80	0.30	0.45	2.38			
	Secondary beams	2	10.10	0.30	0.45	2.73			
	Roof beams @ Roof level:								
	Bottom	1	64.40	0.30	0.60	11.59			
	Top	1	64.40	0.30	0.60	11.59			
	Middle	1	64.40	0.30	0.60	11.59			
	Gallery step starting	1	62.00	0.30	0.45	8.37			
						149.80			
	Waist slab	1	515.00	1.00	0.15	77.25			

S.N	DESCRIPTION OF WORK	N	L	B	D	QTY	UNIT	RATE	AMOUNT
	Door D1	2	1.50	-	2.10	6.30			
	Door D2	22	0.80	-	2.10	36.96			
	Door D3	5	1.00	-	2.10	10.50			
						53.76	Sqmt	**550.14**	**29575.53**
	Basic Rate	519.00							
	Area Weightage @ 6%	31.14						552.26	
	Total	550.14							
32	**SOLID PANEL PRELAM PVC DOOR SHUTTER**								
	Providing and fixing 30mm thick factory made rigid foam with both side prelampanelled Door Shutters made from M.S tube of 19x19mm, 19 gauge for styles and 15x15mm for top and bottom rails, covered with heat moulded prelaminated PVC C Channel of 5mmthick sheet and 30x50mm wide to form styles and 5mm thick and 75mm wide prelaminated PVC sheets for top rail, lock rail and bottom rail on either side and 5mm thick, 20mm wide cross PVC sheet as gap insert for top rail and bottom rail, Panelling of 5mm thick PVC Sheet Prelaminated one ither side fitted int he M.S.Frame, Sealed tot he styles and rails with PVC Designer beading on either side and joined together with solvent cement adhesive etc., complete as per manufacturers specification and direction of Engineer-in-charge fixed to grames with 3 nos of 75mm Aluminium hinges								
	S.R page 58 item 9.65.1								
	D1	2	0.75	-	2.10	3.15			
	D2	22	0.75	-	2.10	34.65			
						37.80	Sqmt	**4197.60**	**158669.28**
	Basic Rate	3960.00							
	Area Weightage @ 6%	237.60						4,231.52	
	Total	4197.60							
33	Providing fabricating, assembling and fixing in position **Alluminium door** using following Alluminium mat finish or glossy finish anodized sections.Outer Frame: Plain section:101.60mm x44.45mmx3.18mm. Section weight 2.404 kg/m, Door Shutter: Vertical section: 44.62mmx44.45mm thickness 3.18mm, section wiht 1.505 kg/m thicknessTop section: 47.62mmx44.45mmthickness 3.00mm section weight 1.426 kg/m Centre section:25.00mmx44.45mm thickness 3.18mm section wight 2.64 kg/m,Bottom section:114.3mmx44.45mmx3.18mmDoor central section 49.91x44.45mm thickness 3.00mm, section weight 1.495kg/m glazing clips 19x17.3x11mm thickness 0.9mm section weight 0.124kg/m;Door central section 49.91x44.45mm thickness 3.00mm, section weight 1.495kg/m glazing clips 19x17.3x11mm thickness 0.9mm section wight 0.124kg/m;aluminium sections anodized 12 to 15 microns cut to length joint metered corners grinded, the shutters pivoted opening arrangement with heavy duty aluminium alloy automatic door closures floor mounted, providing and fixing standard approved accessones, such as aluminium handles for full width or length, tower bolts, lock, pivots: O.v.C or rubber gasket with 5.5 m thick plain glass for top and bottompanel aluminium secitons treated for removal of any rust and prevention of further rust formation, and coated with reasy materials for non-adherence of mortars or any other sticky mateirals; the assembled frame fitted with the corner angles, strips and fitted with screws, rawl plugs or teakwood gutties to R.C.C columns or masonry on sides, beams and flooring in bottom, including cutting, chistling and making good with cement morta to match the surface; all the frames throughly cleaned free from rust, scale or dirt including cost of materials, fixtures, labour and HOM of machinery complete as per specifications.								
	S.R.page 37 item 7.17.1								
	M.D	1	2.00	-	2.4	4.80			
						4.80	Sqm	**6345.16**	**30456.77**
	Basic Rate	5986.00							
	Area Weightage @ 6%	359.16						6,193.96	
	Total	6345.16							

S R page 12 item 4.2									
column footing		6	1.75	1.75	0.15	2.76			
foundation for outer wall		1	32.00	0.75	0.15	3.60			
base floor		1	10.00	6.00	0.15	9.00			
foundation steps		1	1.50	0.90	0.15	0.20			
						15.56	Cumt	**4970.34**	**77332.28**
Basic Rate	4689.00								
Area Weightage @ 6%	281.34							5139.94	
Total	4970.34								
5 Providing and constructing granite / trap / basalt Size Stone Masonry in cement mortar 1:6, stone hammered dressed in courses not less than 20 cms high, bond stones at two m. apart in each course including cost of maerials, labour, curing with all lead and lifts, hire charges of machinaries, loading, unloading, levelling as per specification and direction of the Engineer-in-charge									
S R page 23 item 5.6									
foundation for outer wall		1	10.00	0.68	1.05	7.09			
below step foundation		1	1.50	0.90	0.30	0.41			
step-1		1	1.50	0.90	0.15	0.20			
step-2		1	1.50	0.60	0.15	0.14			
step-3		1	1.50	0.30	0.15	0.07			
						7.90	Cumt	**3765.12**	**29735.04**
Basic Rate	3552.00								
Area Weightage @ 6%	213.12							3978.24	
Total	3765.12								
6 Providing and laying cement concrete using 20mm and down size granite coarse aggregates and fine aggregates of ready mixed concrete for RCC works laid in 15 cms thick layers and well compated including vibrating, curing etc., with all lead and lifts etc complete(excluisive of cost of steel and fabrication charges) Ready Mixed Cement Concrete for Beams, Staircase and Roof with M-25									
S R page 17 item No.,4.49.2									
column footing		6	1.75	1.75	0.30	5.51			
column footing		6	1.65	1.65	0.20	3.27			
						8.78			
columns		6	0.30	0.45	5.75	4.66			
plinth beam		1	32.00	0.20	0.45	2.88			
Lintel		1	32.00	0.20	0.30	1.92			
Roof beam GF		1	32.00	0.30	0.45	4.32			
						13.78	Cumt	**5875.58**	**80950.80**
Basic Rate	5543.00								
Area Weightage @ 6%	332.58							6210.82	
Total	5875.58								

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BRUHAT BANGALORE MAHANAGARA PALIKE

Name of work : Construction of Swimming Pool at Allalasandra Lake premises, in ward no.04 of Yelahanka Assembly Constituency

SWIMMING POOL

S.N	DESCRIPTION OF WORK	N	L	B	D	QTY	UNIT	RATE	AMOUNT
1	Earth work excavation for foundation of buildings, water supply, sanitary lines and electrical conduits either in pits or in trenches 1.5m and above in width, in hard soil not exceeding 1.5m in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50m after breaking of clods complete as per specification								
	S.R.page 5 item 2.4								
	Main Pool	1	52.00	27.00	2+3.3/2	3720.60			
	Toddler Pool	1	10.00	6.00	1.5+2/2	105.00			
	Around Drain	2	56.00	0.45	0.45	22.68			
		2	25.00	0.45	0.45	10.13			
						3858.41	Cumt	259.70	1002027.78
	Basic Rate:	245.00							
	Area Weightage @ 6%	14.70						288.02	
	Total	259.70							
2	Providing sand piles with all leads and lift of 1.5 m. for stabilising foundation after duly making 5 cms. dia holes to a depth of 1.2 to 1.5 m. at 0.5 m c to c and filling with sand and tamping wherever required including cost of materials, labour complete as per specifications(.sand and 10% cement)								
	S.R.page 7 item 2.20								
	Main Pool	1	52.0	27.0		1404.00			
	Toddler Pool	1	10.00	6.00		60.00			
						1464.00	Sqmt	230.02	336749.28
	Basic Rate:	217.00							
	Area Weightage @ 6%	13.02						250.16	
	Total	230.02							
3	Providing and Spreading of Sand								
	S.R.page II item 56								
	Main Pool	1	52.0	27.0	0.05	70.20			
	Toddler Pool	1	10.00	6.00	0.05	3.00			
						73.20	Cumt	1450.00	106140.00
4	Filling available excavated earth (excluding rock) insides of foundations upto plinth in layers not exceeding 20cms. In depth, compacting each deposited layer by ramming after watering with a lead upto 50m. And lift upto 1.5m including cost of all labour complete as per specifications.							1700.00	
	S.R.page 6 item 2.10								
	40% of qty vide item No.1								
						1543.36	Cumt	116.60	179956.01
	Basic Rate:	110.00							
	Area Weightage @ 6%	6.60						127.20	
	Total	116.60							
5	Transportation of excavated earth by mechanical means including loading and unloading with a lead of 20 kmtr and dispersing the same as directed.								
	Qty vide ite. no. 1 - 60%					2315.04	Cumt	114.20	264377.91
	Loading and unloading I.No.17.1				62.20				
	for Haulage(surface road Rs. 2.0 T/Km)								
	(density of debris 1.30 t/cum)								
	for 20kms =20x2x1.30				52.00				
					114.20				

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S.N	DESCRIPTION OF WORK	N	L	B	D	QTY	UNIT	RATE	AMOUNT
9	Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for foundations, **Footings,** bases of columns for mass concrete including cost of all materials, labour complete as per specifications and direction of the Engineer in charge.								
	S.R.page 15 Item 4.28								
		104	1.90	-	0.45	88.92			
		104	1.80	-	0.45	84.24			
	Basic Rate:	219.00				173.16	Sqmt	232.14	40197.36
	Area Weightage @ 6%	13.14							
	Total	232.14						239.56	
10	Providing and removing Centering, shuttering, strutting, propping etc., for **columns,** pillars, piers, abutments, post and struts, square / rectangular / polygon in plan including cost of materials, labour complete as per specification and directions of the Engineer in charge.								
	S.R.page 15 item 4.32								
		10	2.10	-	8.80	184.80			
		8	1.80	-	8.80	126.72			
		10	2.10		3.10	65.10			
	Basic Rate:	338.00				376.62	Sqmt	358.28	134935.41
	Area Weightage @ 6%	20.28							
	Total	358.28						376.30	
11	Providing and removing Centering, shuttering, strutting, propping etc.,and removal of from work for vertical surface such as walls at any thickness including attched plasters, butresses, plinth cills and string courses cost of all materials, labour complete as per specification								
	S.R.page 15 item 4.31								
		2	126.00		0.45	113.40			
		4	9.80		0.45	17.64			
		4	6.95		0.45	12.51			
		2	91.20		0.30	54.72			
		2	20.70		0.30	12.42			
	Basic Rate	271.00				210.69	Sqmt	287.26	60522.81
	Area Weightage @ 6%	16.26							
	Total	287.26						301.09	
12	Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for sides and soffits of **beams**, beam haunchings, cantilever girders, bressuemers and lintes exceeding 1 m in depth including cost of all materials, labour complete as per specifications.								
	S.R.page 15 item 4.34								
		2	4.00		1.20	9.60			
		2	6.00		1.20	14.40			
		2	7.65		1.20	18.36			
		2	92.00		1.20	220.80			
		2	10.20		1.20	24.48			
		2	62.40		1.20	149.76			
		1	48.20		1.20	57.84			
		1	34.50		1.20	41.40			
		1	20.70		1.20	24.84			
		2	5.05		1.20	12.12			
		2	7.15		1.20	17.16			
		2	8.80		1.20	21.12			
		2	10.10		1.20	24.24			

S.N	DESCRIPTION OF WORK	N	L	B	D	QTY	UNIT	RATE	AMOUNT
		2	7.15	-	1.20	17.16			
		2	8.80	-	1.20	21.12			
		2	10.10	-	1.20	24.24			
	Waist slab					515.00			
	Gallery area					425.00			
						3406.02			
	Deduction:								
	V	36	0.90		0.60	19.44			
	V	14	1.50	-	0.60	12.60			
						32.04			
						3373.98	Sqmt	54.06	182397.36
	Basic Rate	51.00							
	Area Weightage @ 6%	3.06						5724	
	Total	54.06							
30	Providing and applying painting in two coats with **plastic Emulsion paint** of approved brand on wall surface to give an even approved shade after thoroughly brushing the surface, free from mortar drops and other foreign matter including preparing the surface even and sand paper smooth, cost of materials, labour, complete as per specifications and as per the directions of the Engineer in charge.**with primer**								
	S.R page 113 Item 15.51/15.51.2								
	Basement wall - main wall	1	64.40	-	5.50	1416.80			
	side wall	2	4.45	-	5.50	48.95			
		1	62.00	-	2.10	130.20			
	Plastering roof area beams	2	4.00	-	1.70	13.60			
		2	6.00	-	1.70	20.40			
		2	7.65	-	1.70	26.01			
		2	92.00	-	1.70	312.80			
		2	10.20	-	1.70	34.68			
		2	62.40	-	1.70	212.16			
		1	48.20	-	1.70	81.94			
		1	34.50	-	1.70	58.65			
		1	20.70	-	1.70	35.19			
		2	5.05	-	1.20	12.12			
		2	7.15	-	1.20	17.16			
		2	8.80	-	1.20	21.12			
		2	10.10	-	1.20	24.24			
	Waist slab					515.00			
	Gallery area					425.00			
						3406.02			
	Deduction:								
	V	36	0.90		0.60	19.44			
	V	14	1.50	-	0.60	12.60			
						32.04			
						3373.98	Sqmt	84.80	286113.50
	Basic Rate:	80.00							
	Area Weightage @ 6%	4.80						90.80	
	Total	84.80							
31	**SOLID PVC DOOR FRAME**								
	Providing and fixing factory made PVC Door Frame of size 50x47mm with a wall thikness of 5mm, made out of extruded 5mm rigid PVC foam sheet metered cut at corners and jointed 2 Nos of 150mm long brackets of 15x15mm M.s.Square tube, the entire door frame to be reinforced with 19x19mm M.S Square tube of 19 guage. The door frame to be fixed to the wall using M.S.Screws of 65/80mm size complete as per manufacturers specification and direction of Engineer in charge.								
	S.R page 57 Item 9.84								

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BRUHAT BANGALORE MAHANAGARA PALIKE

Name of work : **Construction of Swimming Pool at Allalasandra Lake premises, in ward no.04 of Yelahanka Assembly Constituency**

FILTRATION ROOM

S.N	DESCRIPTION OF WORK	N	L	B	D	QTY	UNIT	RATE	AMOUNT
	EARTH WORK								
1	Earthwork excavation for foundation of buildings, water supply, sanitary lines and electrical conduits either in pits or in trenches 1.5m and above in width, in **hard soil** not exceeding 1.5 m. in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50 m. after breaking of clods complete as per specifications.								
	S.R page 5 item 2.4								
	columtion footing	6	1.75	1.75	1.50	27.56			
	foundation for outer wall	1	32.00	0.75	0.8	18.00			
	foundation steps	1	1.50	0.90	0.45	0.61			
						46.17	Cumt	**259.70**	**11990.35**
	Basic Rate:	245.00							
	Area Weightage @ 6%	14.70						221.02	
	Total	259.70							
2	Filling available excavated earth (excluding rock) insides of foundations upto plinth in layers not exceeding 20cms. In depth, compacting each deposited layer by ramming after watering with a lead upto 50m. And lift upto 1.5m including cost of all labour complete as per specifications.								
	S.R page 6 item 2.10								
	45% of excavated earth filling					20.78			
	basement filling	1	10.00	6.00	0.45	27.00			
						51.58	Cumt	**116.60**	**6013.99**
	Basic Rate:	110.00							
	Area Weightage @ 6%	6.60						127.20	
	Total	116.60							
3	Providing and filling in foundation with granite / trap borken metal 100mm and down size, with approved sand including hand packing, ramming, watering, including cost of all materials and labour with all lead and lift complete as per specification.								
	S R page 6 item 2.15								
	columtion footing	6	1.75	1.75	0.30	5.51			
	foundation for outer wall	1	32.00	0.75	0.30	7.20			
	base floor	1	10.00	6.00	0.30	18.00			
						30.71	Cumt	**1926.02**	**59152.89**
	Basic Rate:	1817.00							
	Area Weightage @ 6%	109.02						2132.72	
	Total	1926.02							
4	Providing and laying in position Plain Cement Concrete of mix 1:3:6 with OPC cement @ 220kgs ,with 40mm and down size graded granite metal coarse aggregates @ 0 .892 cum and fine aggregates @ 0.486cum machine mixed, concrete laid in layers not exceeding 15 cms thick, well compacted, in foundation including cost of all materials,labour, HOM of machinery ,curing complete as per specifications.								

S.N	DESCRIPTION OF WORK	N	L	B	D	QTY	UNIT	RATE	AMOUNT
		for 20kms =20x2x1.30			52.00				
					114.20				
6	Providing and laying in position Plain Cement Concrete of mix 1:3:6 with OPC cement @ 220kgs ,with 40mm and down size graded granite metal coarse aggregates @ 0 .892 cum and fine aggregates @ 0.465cum machine mixed, concrete laid in layers not exceeding 15 cms thick, well compacted, in foundation including cost of all materials,labour, HOM of machinery ,curing complete as per specifications.								
	S.R page 12 item 4.2								
		28	2.00	2.00	0.15	16.80			
	For Full area	1	126.00	1.00	0.15	18.90			
		2	27.00	10+6/2	0.15	64.80			
		1	92.00	1.00	0.15	13.80			
		2	9.80	1.00	0.15	2.94			
		2	7.00	1.00	0.15	2.10			
	Basic Rate	4689.00				119.34	Cumt	4970.34	593160.38
	Area Weightage @ 6%	281.34							
	Total	4970.34						5139.94	
7	Providing and constructing granite / trap / basalt Size Stone Masonry in foundation with cement mortar 1:6 stone hammered dressed in courses not less than 20 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specifications								
	S.R page 23 item 5.6								
		1	126.00	0.75	1.00	94.50			
		1	91.20	0.75	1.00	68.40			
		2	9.80	0.75	1.00	14.70			
	Retaining wall	2	6.95	0.75	1.00	10.43			
		1	64.40	2.00	0.45	57.96			
	Basic Rate	3582.00				245.99	Cumt	3765.12	926163.04
	Area Weightage @ 6%	213.12							
	Total	3765.12						4059.74	
8	Providing and laying cement concrete using 20mm and down size granite coarse aggregates and fine aggregates of ready mixed concrete (RMC) M-20 for RCC Works laid in 15 cms thick layers and well compacted vibrating, curing, for raft foundation column footing main and secondary beams with all lead and lifts etc. compelte (exclusive of cost of steel and fabrication charges)								
	S.R page 18 item 4.48								
	Plinth Beam	1	126.00	0.30	0.45	17.01			
	Plinth Beam	2	9.80	0.20	0.45	1.76			
	Plinth Beam	2	6.95	0.20	0.45	1.25			
	Plinth Beam	1	91.20	0.20	0.30	5.47			
		1	20.70	0.20	0.30	1.24			
	for W/C & Shower(Roof)					26.74			
		4	6.90	1.90	0.15	7.87			
	V.I.P Lounge	4	5.50	1.90	0.15	6.27			
		1	9.60	4.30	0.15	6.19			
						20.33			
	Basic Rate	5414.00				47.07	Cumt	5738.84	270109.98
	Area Weightage @ 6%	324.84							
	Total	5738.84						6310.72	

S.N	DESCRIPTION OF WORK	N	L	B	D	QTY	UNIT	RATE	AMOUNT
26	Fabricating, supplying & erecting M.S. angular Truss of all spans as per approved designs and drawing. The entire truss is anchored suitably by using 4 nos of of M.S. anchor bolts at each support, with base plate and shoe plate.The work includes cutting, straightening, placing in position of M.S angle and wleding wherever necessary, and applying one coat of red oxide primer coat to all the members including cost of all materials, labour charges, & hire charges of machineries for cutting, welding, grinding & erection equipments, etc., complete as per specification								
	S.R page 41 item 7.30								
							Sqmt		
	432 Sqmt x 10.76 = 4648.32 Sft x 2.75 Kgs per sft = 12782.88 Kg					12782.88	Kgs	130.38	1666631.89
	Basic Rate	123.00							
	Area Weightage @ 6%	7.38						128.26	
	Total	130.38							
27	Providing and installing of pre painted Galvolume iron Trapezoidal profiled sheet of approved make 1060 mm width (1000 mm cover width), 28-30 mm crest height with crest distance of 200 mm c/c with 2 ribs at the centre for stiffening. The total coated thickness (TCT) of the sheet will be 0.47 mm +/- 0.02 mm tolerance Zinc-Alu Alloy coating AZ150 gsm as per ASTM 1397/A755-550 mpa steel grade, 5-7 microns epoxy primer on both side of the sheet and polyester top coat 20-22 microns using self drilling/self tapping screws of 25 mm length, to be fixed over the existing purlins, rafters, channels and trusses.								
	S.R page 268 item 38.30								
		1	62.00	10.00		620.00	Sqmt	816.20	506044.00
	Basic Rate	770.00							
	Area Weightage @ 6%	46.20							
	Total	816.20							
28	Providing ACE paint to external walls of approved colour and shade over prime's coat.after brooming & cleaning the surface and applying two coats of ACE paint with cost of all material,labour,lead lift with loading unloading etc complete as per direction of Engineer in charge of work.(Approved rates)								
		1	64.40	-	8.80	566.72			
		1	62.00	-	2.10	130.20			
		2	4.45	-	7.81	69.51			
						766.43	Sqmt	180.00	137957.22
29	Providing applying two coats of wall putty to inside plastered walls and ceiling using white cement putty. Scrapping and levelling the surface using steel blade and preparing the surface even and smooth by using different grade sand papers including cost of all materials cost of labour and scaffolding etc complete as per the specifications								
	S.R page 122 item 15.106								
	Basement wall - main wall	1	64.40	-	5.50	1416.60			
	side wall	2	4.45	-	5.50	48.95			
		1	62.00	-	2.10	130.20			
	Plastering roof area beams	2	4.00	-	1.70	13.60			
		2	6.00	-	1.70	20.40			
		2	7.65	-	1.70	26.01			
		2	92.00	-	1.70	312.80			
		2	10.20	-	1.70	34.68			
		2	62.40	-	1.70	212.16			
		1	48.20	-	1.70	81.94			
		1	34.50	-	1.70	58.65			
		1	20.70	-	1.70	35.19			
		2	5.05	-	1.20	12.12			

13	Providing and fixing to wall, ceiling and floor, low density polyethylene pipes 6.00 kgf/s.cm working pressure 160mm outside diameter, compression type fittings, wall clips, making good the wall, ceiling and floor including cost of all materials, labour charges, HOM of equipments and testing, excluding cost of fittings, complete as per specifications. **(2 runs)**								
	S.R page 90 item 13.70.6					**100.00**	Mtrs	**632.82**	**63282.00**
	Basic Rate	597.00							
	Area Weightage @ 6%	35.82						632.00	
	Total	632.82							
								Total	**1193324.69**
14	MISCELLENEOUS								**675.31**
								GRAND TOTAL	**1194000.00**

(RUPEES ELEVEN LAKHS NINETY FOUR THOUSAND ONLY)

CERTIFICATES

1) The work spot has been inspected and found to be necessary
2) This estimate is prepared as per KPWD SR. of 2014-15 & Approved Rates
3) The provisions were made in this estimate are necessary and adequate.
4) This works come under B.B.M.P. limits.
5) The work is not Spilt Up.

Assistant Engineer
Project Sub Division
Yelahanka Zone, BBMP

N. Elakkiya
Assistant Executive Engineer
Project Sub Division
Yelahanka Zone, BBMP

Executive Engineer
Project division
Yelahanka Zone, BBMP Bnagalore

23	Fabricating, supplying & erecting M.S. angular Truss of all spans as per approved designs and drawing. The entire truss is anchored suitably by using 4 nos of of M.S. anchor bolts at each support, with base plate and shoe plate.The work includes cutting, straightening, placing in position of M.S angle and wleding wherever necessary, and applying one coat of red oxide primer coat to all the members including cost of all materials, labour charges, & hire charges of machineries for cutting, welding, grinding & erection equipments, etc., complete as per specification								
	S.R page 41 item 7.30								
	10X6=60X10.76=645.6X3=1936.80					1936.80	Kgs	130.38	252519.98
	Basic Rate	123.00							
	Area Weightage @ 6%	7.38						128.26	
	Total	130.38							
24	Providing and installing of pre painted Galvolume iron Trapezoidal profiled sheet of approved make 1060 mm width (1000 mm cover width), 28-30 mm crest height with crest distance of 200 mm c/c with 2 ribs at the centre for stiffening. The total coated thickness (TCT) of the sheet will be 0.47 mm +/- 0.02 mm tolerance Zinc-Alu Alloy coating AZ150 gsm as per ASTM 1397/A755-550 mpa steel grade, 5-7 microns epoxy primer on both side of the sheet and polyester top coat 20-22 microns using self drilling/self tapping screws of 25 mm length, to be fixed over the existing purlins, rafters, channels and trusses.								
	S.R page 288 item 38.30								
	For badminton	1	10		6	60.00			
						60.00	Sqmt	816.20	48972.00
	Basic Rate	770.00							
	Area Weightage @ 6%	46.20						816.2	
	Total	816.20							
								TOTAL	1094062.18
25	Miscellaneous								937.82
								GRAND TOTAL	1095000.00

(RUPEES TEN LAKHS NINETY FIVE THOUSAND ONLY)

CERTIFICATES

1) The work spot has been inspected and found to be necessary
2) This estimate is prepared as per KPWD SR. of 2014-15 & Approved Rates
3) The provisions were made in this estimate are necessary and adequate.
4) This works come under B.B.M.P. limits.
5) The work is not Split Up.

Assistant Engineer
Project Sub Division
Yelahanka Zone, BBMP

Assistant Executive Engineer
Project Sub Division
Yelahanka Zone, BBMP

Executive Engineer
Project division
Yelahanka Zone, BBMP Bngalore

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BRUHAT BANGALORE MAHANAGARA PALIKE

Name of work : Construction of Swimming Pool at Allalasandra Lake premises, in ward no.04 of Yelahanka Assembly Constituency

GALLERY

S.N	DESCRIPTION OF WORK	N	L	B	D	QTY	UNIT	RATE	AMOUNT
1	Earth work excavation for foundation of buildings, water supply, sanitary lines and electrical conduits either in pits or in trenches 1.5m and above in width, in **hardsoil** not exceeding 1.5m in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50m after breaking of clods complete as per specification								
	S.R.page 5 item 2.4								
	Gallery area								
	For Footing	2	27.00	10+6/2	1.30	561.60			
	For Foundation	28	2.00	2.00	2.00	224.00			
	For W/C & Showers	1	127.00	1.00	1.00	127.00			
	For W/c Main wall	1	91.20	1.00	1.00	91.20			
		2	9.80	1.00	1.00	19.60			
		2	6.95	1.00	1.00	13.90			
	Basic Rate	245.00				**1037.30**	Cumt	**259.70**	**269386.81**
	Area Weightage @ 6%	14.70							
	Total	259.70						283.02	
2	Providing sand piles with all leads and lift of 1.5 m. for stabilising foundation after duly making 5 cms. dia holes to a depth of 1.2 to 1.5 m. at 0.5 m c to c and filling with sand and tamping wherever required including cost of materials, labour complete as per specifications(**sand and 10% cement**)								
	S.R.page 7 item 2.20								
	Gallery area	2	27.0	10+6/2		432.00			
	Basic Rate	217.00				**432.00**	Sqmt	**230.02**	**99368.64**
	Area Weightage @ 6%	13.02							
	Total	230.02						250.16	
3	Providing and Spreading of Sand								
	S.R.page II item 56								
	Gallery area	2	27.0	10+6/2	0.05	21.60			
						21.60	Cumt	**1450.00**	**31320.00**
4	Filling available excavated earth (excluding rock) in sides of foundations upto plinth in layers not exceeding 20 cms in depth, compacting each deposited layer by ramming after watering with a lead upto 50m and lift upto 1.5m including cost of all labour complete as per specification.							1700.00	
	S.R.page 6 item 2.10								
	Basic Rate	110.00				414.92	Cumt	116.60	48379.67
	Area Weightage @ 6%	6.60							
	Total	116.60						127.20	
5	Transportation of excavated earth by mechanical means including loading and unloading with a lead of 20 kmtr and dispersing the same as directed								
	Loading and unloading I.No.17.1					622.38	Cumt	**114.20**	**71075.80**
	for Haulage(surface road Rs. 2.0 T/Km)				62.20				
	(density of debris 1.30 t/cum)								

S.N	DESCRIPTION OF WORK	N	L	B	D	QTY	UNIT	RATE	AMOUNT
	Gallery step bottom walk path	1	62.00	-	2.00	124.00			
						128.05	Sqmt	**2647.88**	**339061.03**
	Basic Rate	2498.00							
	Area Weightage @ 6%	149.88						2692.20	
	Total	2647.88							
22	Providing and laying Hassan Green **Granite flooring for Staircase,** treads and rises using pre polished 20mm thick water cut green Granite Slab laid over existing cement concrete bed in CM 1:3, average 20mm thick including full rounding for nosing, cutting 3 line grooves not more than 2mm wide for antiskidding, curing etc., complete.								
	S.R page 105 item 14.51								
	Staircase steps	36	1.20	-	0.15	6.48			
	Landing	1	2.40	-	1.20	11.52			
						18.00	Sqmt	**3698.34**	**66570.12**
	Basic Rate	3489.00							
	Area Weightage @ 6%	209.34						4083.12	
	Total	3698.34							
23	Providing Ceramic tiles of approved make shade and size for flooring, treads of steps and landings laid on a bed of 12mm thick, cement mortar 1:3 mix, flush pointing with white cement using colour pigment, including cost of materials, labour, curing, complete as per specifications of **size 30 x 30 cms 6mm thick**								
	S.R page 103 item 14.36 and 14.36.2								
	For Toilets	34	1.20	1.50	-	61.20			
						61.20	Sqmt	**999.58**	**61174.30**
	Basic Rate	943.00							
	Area Weightage @ 6%	56.58						1191.44	
	Total	999.58							
24	Providing Skirting, Dadoing, rises of steps with colour glazed tiles on 10mm thick cement plaster 1:3 and jointed with white cement slurry over rough plaster surface (excluding cost of rough plastered surface which should be measured and paid separetely) using glazed tiles of approved make and size including cost of materials, labour, complete as per specifications. 15x15 cms 6mm thick								
	S.R page 103 item 14.41								
	Dado	34	5.40	-	2.10	385.56			
						385.56	Sqmt	**998.52**	**384989.37**
	Basic Rate	942.00							
	Area Weightage @ 6%	56.52						1037.74	
	Total	998.52							
25	Providing and fixing Stainless steel 304 grade for staircase railings, balconies, ramps with hand rail, 50mm dia 16 guage hollow pipe welded to vertical hollow 50mm dia pipe of 16 guage, stainless steel vertical pipe spaced at 1.20m regular intervals, and 5 Nos of 25mm dia. Stainless steel hollow horizontal pipe are welded to vertical 50mm dia hollow pipe. The entire assembly is fixed to staircase concrete by using expansion bolts by drilling concrete etc., complete including cost of materials, labour, HOM of machineries and electrical charges, etc., complete as per specifications.								
	S.R page 43 item 7.38								
		62	1.20	-		297.60			
	Staircase	4	8.50	-	1.00	34.00			
						331.60	Sqmt	**6393.92**	**2120223.87**
	Basic Rate	6032.00							
	Area Weightage @ 6%	361.92						6473.20	
	Total	6393.92							

8	Providing TMT Steel Reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications. **TMT Bars Fe 500**								
	S.R.page 16 item 4.46.2								
	Retaining wall footing, bottom and top slab					48.97	Cmt		
	@ 1.60%					0.784			
	@ 7850 kg/cmt					6150.63	kg		
						6.15	MT	**76900.88**	**472989.01**
	Basic Rate	72548.00							
	Area Weightage @ 6%	4352.88						68513.10	
	Total	76900.88							
9	Providing 12mm thick cement plaster in single coat with cement mortar 1:3 to ceiling including rounding off corners wherever required smooth rendering, : Providing and removing scaffolding, including cost of materials labour, curing complete as per specifications.								
	Extra for providing and mixing waterproofing compound in cement plaster work at one kg per bag or in the proportion recommended by the manufacturers, for cement mortar 1:3 12mm thick cost of materials complete as per specifications.								
	S.R.page 110 item 15.21 and 15.23								
	sides	4.00	5.00		5.00	100.00			
	Top and bottom	2.00	5.00		5.00	50.00			
						150.00	Sqm	**200.34**	**30051.00**
	Basic Rate	189.00							
	Area Weightage @ 6%	11.34						201.40	
	Total	200.34							
10	G.I PIPE 100mm Dia	1.00				**4.00**	Nos.	**802.00**	**3208.00**
	Page no.XVII Sl.No.502								
11	Providing and fixing C.I.Manhole cover with frame 10 x 455mm size (38 Kgs)								
	Page No. XXXVII					**1.00**	No	**1901.00**	**1901.00**
12	Providing 20mm square M.S.Footrest and fixing in manhole with 1:3:6 cement cocnrete block of 20x20x10cms using 20mm and down size metal of size inlcuding cost of materials, labour charges, curing complete as per specifications.								
	S.R.page 70 item 11.44					**5.00**	Nos.	**272.42**	**1362.10**
	Basic Rate	257.00							
	Area Weightage @ 6%	15.42						237.72	
	Total	272.42							

18	Providing and laying flooring 40mm thick with an under layer of 30mm thick 1:2:4 cement concerte ,using broken granite metal of 12.5mm nominal size and top layer of 10mm thick plaster with cement mortar 1:3 finished with floating coat of neat cement, including cost of materials,labour, curing, complete as per specification								
	S.R page 99 item No. 14.10								
	flooring	1	10.00		6.00	60.00			
	steps	3	1.50		0.45	2.03			
						62.03	Sqmt	**493.96**	**30637.87**
	Basic Rate	466.00							
	Area Weightage @ 6%	27.96							
	Total	493.96						517.25	
19	Providing ACE paint to external walls of approved colour and shade over prime's coat.after brooming & cleaning the surface and applying two coats of ACE paint with cost of all material,labour,lead lift with loading unloading etc.complete as per direction of Engineer in charge of work.(Approved rates)								
						128.00	Sqmt	**180.00**	**23040.00**
20	Providing applying two coats of wall putty to inside plastered walls and ceiling using white cement putty. Scrapping and levelling the surface using steel blade and preparing the surface even and smooth by using different grade sand papers including cost of all materials cost of labour and scaffolding etc complete as per the specifications								
	S.R page 122 Item 15.105								
		1	32.00		4.00	128.00			
	Maindoor	1	3.00		3.00	-9.00			
	window	6	1.00		1.40	-15.12			
						103.88	Sqmt	**54.06**	**5615.75**
	Basic Rate	51.00							
	Area Weightage @ 6%	3.06							
	Total	54.06						57.24	
21	Providing and applying painting in two coats with plastic Emulsion paint of approved brand on wall surface to give an even approved shade after thoroughly brushing the surface, free from mortar drops and other foreign matter including preparing the surface even and sand paper smooth, cost of materials, labour, complete as per specifications and as per the directions of the Engineer in charge. Extra for Painting Two coats with plastic emulsion paint of approved bra and / or sloping roof as per specifications.								
	S.R page 113 Item 15.51.2								
						103.88	Sqmt	**67.84**	**7047.22**
	Basic Rate:	64.00							
	Area Weightage @ 6%	3.84							
	Total	67.84						90.10	
22	Providing and appying Enamel metal paint two coats (excluding priming coat) over new steel or other matel surface brushing to given an even shade after cleaning oil,grease,dirt and other forgien matter including cost of materials , labour,complateas per specification.								
	S.R page 117 item 15.74								
	Door	2	1.20		2.60	6.24			
	Window	12	1.8		1.40	30.24			
						36.48	Sqmt	**80.56**	**2938.83**
	Basic Rate:	76.00							
	Area Weightage @ 6%	4.56							
	Total	80.56						83.79	

(93)

S.N	DESCRIPTION OF WORK	N	L	B	D	QTY	UNIT	RATE	AMOUNT
17	Providing and laying Pre-Cast Slab using 20mm and downsize graded course aggregate stone using clean sieved approved sand including cost and conveyance of all materials, all lead and lift, labour charges of machinery etc., complete 10 cm thick as directed by Engineer in Charge CC 1:1.5:3 (inclusive of cost of steel and fabrication charges) Approved Data Rates								
	Covering Slabs over drain	2	56.00	1.00		112.00			
		2	25.00	1.00		50.00		✓	
						162.00	Sqmt	1999.00	323838.00
18	Miscellaneous and unforeseen charges								24333164.77
									16835.23
	(RUPEES TWO CRORE FORTY THREE LAKHS FIFTY THOUSAND ONLY)							TOTAL:	24350000.00

CERTIFICATES

1) The work spot has been inspected and found to be necessary
2) This estimate is prepared as per KPWD SR. of 2014-15 & Approved Rates
3) The provisions were made in this estimate are necessary and adequate.
4) This works come under B.B.M.P. limits.
5) The work is not Split Up.

Assistant Engineer
Project Sub Division
Yelahanka Zone, BBMP

Assistant Executive Engineer
Project Sub Division
Yelahanka Zone, BBMP

Executive Engineer
Project division
Yelahanka Zone, BBMP Bnagalore